

# SAFETY DATA SHEET

Date issued : 07/12/2016  
SDS number : Triple-S\_CitrOxo  
Date revised : 12/20/2021  
Revision number : 3

## SSS Navigator & Navigator PDC #71 CitrOxo Citrus Disinfectant

### 1. Identification

**Product code:** 48207, 48311  
**Product identifier:** SSS Navigator & Navigator PDC #71 CitrOxo Citrus Disinfectant  
**Product description:** Disinfectant  
**Chemical family:** Quaternary ammonium chloride blend  
**Relevant identified uses:** Disinfectant, Virucide, Fungicide

#### Distributor

Triple S  
98 Spit Brook Road  
Nashua, NH 03062  
<http://www.triple-s.com>  
**Customer Service:** 978-667-7900

#### Emergency telephone number (24 hour)

888-779-1339

**EPA reg. No.:** 1839-224-12120

### 2. Hazard identification

#### Classification of the substance or mixture

##### Health hazards:

Skin Corrosion, Category 1C  
Acute Toxicity (Oral), Category 5  
Acute Toxicity (Inhalation), Category 2  
Serious Eye Damage, Category 1

##### Environmental hazards:

Acute Hazards to the Aquatic Environment, Category 1  
Chronic Hazards to the Aquatic Environment, Category 2

##### Physical hazards:

Flammable Liquids, Category 3

#### Label elements



Corrosion



Environment



Flame

**Signal word:** DANGER

#### Hazard statement(s)

H318: Causes serious eye damage.  
H314: Causes severe skin burns and eye damage.  
H302: Harmful if swallowed.  
H401: Toxic to aquatic life.  
H226: Flammable liquid and vapour.

#### Precautionary statement(s)

##### Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P273: Avoid release to the environment.  
P102: Keep out of reach of children.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P264: Wash hands thoroughly after handling.  
P234: Keep only in original packaging.

##### Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P310: Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P363: Wash contaminated clothing before reuse.

P391: Collect spillage.

P370+P378: In case of fire: Use dry chemical, foam or water mist to extinguish.

**Storage:**

P405: Store locked up.

P403+P235: Store in a well-ventilated place. Keep cool.

**Disposal:**

P501: Dispose of contents/container according to all local, state and Federal regulations.

**Emergency overview**

**Physical appearance:** Clear Liquid

**Immediate concerns:** Causes irreversible eye damage and skin burns.

**Potential health effects**

**Eye:** Corrosive, contact causes severe eye burns.

**Skin:** Contact causes severe skin irritation and possible burns.

**Skin absorption:** Not Established

**Ingestion:** Harmful if swallowed.

**Inhalation:** Not Established

**Reproductive toxicity**

**Reproductive toxicity:** Not Established

**Teratogenic effects:** Not Established

**Carcinogenicity:** Not Established

**Mutagenicity:** Not Established

**Routes of entry:** Eye, skin, ingestion.

**Cancer statement:** None

**Sensitization:** No known significant effects or critical hazards.

**Warning caution labels:** Corrosive

**3. Composition/information on ingredients**

Chemical name	% w/w	CAS No.
Alkyl (50% C14, 40% C12, 10% C16) Dimethyl Benzyl Ammonium Chloride	2.304	68424-85-1
Octyl Decyl Dimethyl Ammonium Chloride	1.728	32426-11-2
Didecyl Dimethyl Ammonium Chloride	0.864	7173-51-5
Diocetyl Dimethyl Ammonium Chloride	0.864	5538-94-3
Hydrogen Peroxide	5 - 10	7722-84-1
Phosphoric Acid	0 - 1	7664-38-2
Fragrance	0 - 1	TS
Water	80 - 90	7732-18-5

**Comments:** If CAS number is "TS", the specific chemical identity has been withheld as a trade secret.

**4. First-aid measures**

**Eye:** Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

**Skin:** Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.

**Ingestion:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**Inhalation:** Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

**Most important symptoms and effects, both acute and delayed**

**Eye:** Severe burning sensation, damage marked by burns.

**Skin:** Burning sensation, redness, swelling and possible blistering.

**Skin absorption:** Not Established

**Ingestion:** Irritation of mouth, throat, along with upset stomach, vomiting.

**Inhalation:** Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

**Acute effects:** Corrosive to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.

**Indication of immediate medical attention and special treatment needed, if necessary:** Probable mucosal damage may contraindicate the use of gastric lavage.

#### 5. Fire-fighting measures

**Flammable class:** II (100-140F)

**General hazard:** Combustible Liquid

**Suitable extinguishing media:** Use Dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

**Hazardous combustion products:** Carbon monoxide from combustion

**Explosion hazards:** Fire exposed containers may burst due to increased pressure from heat.

**Fire fighting procedures:** Keep fire exposed containers cool with water stream or mist.

**Fire fighting equipment:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

**Fire explosion:** Not Available

**Sensitivity to static discharge:** None Expected.

**Hazardous decomposition products:** Decomposition products may include: Carbon dioxide, Carbon monoxide, nitrogen oxides.

#### 6. Accidental release measures

**Small spill:** Shut off any ignition sources. Avoid runoff into storm sewers and ditches which lead to waterways.

**Large spill:** Shut off all ignition sources. Ventilate area. Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

##### Environmental precautions

**Water spill:** Avoid discharges into open waterways and notify your local emergency services if this occurs.

**Land spill:** Avoid discharge to soil.

**Air spill:** NA = Not Applicable

**General procedures:** Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-combustible material and transfer to containers.

**Release notes:** Product is toxic to fish and aquatic invertebrates.

**Special protective equipment:** Eye protection, rubber gloves, rubber boots to protect feet.

#### 7. Handling and storage

**General procedures:** Do not contaminate water, food, or feed by storage and disposal.

**Precautions for safe handling:** Avoid contact with skin and eyes. Wash hands before eating, drinking, smoking or using toilet facilities.

**Conditions for safe storage:** Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, and water sources. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

**Storage temperature:** Store at ambient temperatures.

**Storage pressure:** Store at ambient atmospheric pressure.

#### 8. Exposure controls/personal protection

##### Exposure controls

Control parameters				
Occupational exposure limit values				
Chemical name	Type		ppm	mg/m <sup>3</sup>
Hydrogen Peroxide	OSHA PEL	TWA	1	1.4
	ACGIH TLV	TWA	1	1.4
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL
Phosphoric Acid	OSHA PEL	TWA		1
	ACGIH TLV	TWA		1
		STEL		
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL

**Appropriate engineering controls:** Use in well ventilated area.

**Individual protection measures, such as personal protective equipment**

**Eye / face protection:** Chemical splash goggles.

**Skin protection - hand protection:** Rubber or other chemical resistant gloves.

**Respiratory protection:** A respirator is not needed under normal and intended conditions of product use.

**Skin protection - other:** Chemical resistant outerwear (tyvek) if contact with spray or mist is anticipated.

**Occupational hygiene practices:** Wash with soap and water after handling. Do not eat, drink or smoke while using product.

**9. Physical and chemical properties**

**Physical state:** Liquid

**Color:** Water Clear

**Odor:** Citrus

**Odor threshold:** Not Established

**pH:** 1.0 to 3.0

**Freezing point:** 32° F; 0° C

**Initial boiling point and boiling range:** 212° F; 100° C

**Flash point:** > 48.9°C (120°F) Tag Closed Cup (TCC)

**Evaporation rate (n-butyl acetate = 1):** (Water =1) 1.0

**Lower explosion limit / flammability limit:** Not Established

**Upper explosion limit / flammability limit:** Not Established

**Vapor pressure:** ~ 20 mm Hg at (68°F)

**Relative vapor density:** ~ 1 Air = 1

**Density:** 8.52 at 20°C (68°F)

**Relative density:** 1.021 grams/ml. at 20°C (68°F)

**Solubility:** Complete

**Auto-ignition temperature:** Not Established

**Decomposition temperature:** Not Available

**Viscosity:** Water thin.

**Percent volatiles:** >80

**VOC content:** None

**10. Stability and reactivity**

**Reactivity:** Stable

**Dangerous polymerization:** Will not occur.

**Conditions to avoid:** Not Established

**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Incompatible materials:** Strong alkalis, reducing agents, chlorine bleach products.

**11. Toxicological information**

**Acute toxicity**

Chemical name	LD <sub>50</sub> (oral) mg/kg(rat)	LD <sub>50</sub> (dermal) mg/kg(rabbit)	LC <sub>50</sub> (inhalation) mg/l
Alkyl (50% C14, 40% C12, 10% C16) Dimethyl Benzyl Ammonium Chloride	430 mg/kg (rat)	3560 mg/kg (rat)	
Octyl Decyl Dimethyl Ammonium Chloride	238 mg/kg (rat)	3342 mg/kg (rat)	0.07 mg/L
Didecyl Dimethyl Ammonium Chloride	238 mg/kg (rat)	3342 mg/kg (rat)	0.07 mg/L
Diocetyl Dimethyl Ammonium Chloride	238 mg/kg (rat)	3342 mg/kg (rat)	0.07 mg/L
Hydrogen Peroxide	> 2000 mg/kg (rat)	> 2000 mg/kg (rabbit)	
Phosphoric Acid	~ 1530 mg/kg (rat)	~ 2740 mg/kg (rabbit)	

**Acute dermal toxicity LD<sub>50</sub>:** > 2000 Not Established

**Acute oral toxicity LD<sub>50</sub>:** > 1000 Not Established

**Skin corrosion / irritation:** Corrosive

**Germ cell mutagenicity:** No known significant effects or critical hazards.

**Carcinogenicity**

Chemical name	IARC
Hydrogen Peroxide	Group 3 - Not classifiable as to its carcinogenicity to Humans

**IARC:** No listed substance

**Reproductive toxicity:** No known significant effects or critical hazards.

**Specific Target Organ Toxicity - single exposure:** No known significant effects or critical hazards.

## 12. Ecological information

**Ecotoxicological information:** This product is toxic to fish and aquatic invertebrates.

**Aquatic toxicity, both acute and chronic:** Toxic to aquatic life.

**Persistence and degradability:** Not Established

**Other adverse effects:** Not Established

## 13. Disposal considerations

**Disposal methods:** Attempt to use product completely in accordance with intended use. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**For large spills:** Consult with local and state authorities for large volume disposal.

**Product disposal:** Any method in accordance with local, state, and federal laws. Best method is to recycle or reuse for intended purpose.

**Empty container:** Non-Refillable Container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose in a sanitary landfill, or by incineration.

**RCRA/EPA waste information:** Corrosive

**RCRA hazard class:** D002

## 14. Transport information

### USA Department of Transport Regulations (DOT)

**UN proper shipping name:** Disinfectant, liquid, corrosive n.o.s.

**Technical name:** Quaternary Ammonium Compounds

**Transport hazard class(es):** 8

**UN number:** 1903

**Packing group, if applicable:** III

**Placards:** Corrosive

**Hazard label:** Certain package sizes determine the proper labeling of containers. Consult manufacturer for specific information regarding proper labeling.

**DOT other shipping information:** Certain shipping modes and packaging sizes may have exceptions from the transport regulations. The classifications/information provided above may not reflect applicable exceptions. Contact the manufacturer for more specific information on the proper shipping of this material.

**U.S. Customs harmonization number:** 3808.94.0000

### ICAO - air

**UN proper shipping name:** Disinfectant, liquid, corrosive n.o.s.

**Technical name:** Quaternary Ammonium Compounds

**UN number:** 1903

**Transport hazard class(es):** 8

**Packing group, if applicable:** III

**Placards:** None

**Hazard label:** None

### IMDG - sea

**UN proper shipping name:** Disinfectant, liquid, corrosive n.o.s.

**Technical name:** Quaternary Ammonium Compounds

**UN number:** 1903

**Transport hazard class(es):** 8

**Packing group, if applicable:** III

**Placards:** None

**Hazard label:** Corrosive

## 15. Regulatory information

### UNITED STATES

#### SARA Section 311/312 Hazard Categories

**311/312 Health hazards:** Health Hazard - Acute; Fire Hazard

**313 reportable ingredients:** No listed substance

**EPCRA Section 302 Extremely Hazardous Substances**

EPCRA Status: Not Available

**CERCLA Hazardous Substances and Reportable Quantities (RQ)**

CERCLA regulatory: None

Chemical name	% w/w	CERCLA rq
Phosphoric Acid	0 - 1	5,000 lbs.

**TSCA (The Toxic Substances Control Act)**

TSCA regulatory: All ingredients are listed on the TSCA Chemical Inventory.

States with special requirements

Chemical name	Requirements
Hydrogen Peroxide	Massachusetts Right to Know Substance New Jersey Right To Know Substance New York Right to Know Substance Pennsylvania Right to Know Substance
Phosphoric Acid	Massachusetts Right to Know Substance New Jersey Right To Know Substance New York Right to Know Substance Pennsylvania Right to Know Substance Rhode Island Right to Know Substance

California Proposition 65: No listed substance

Carcinogen: Not yet Determined

FIFRA (federal insecticide, fungicide, and rodenticide act): Regulated

**16. Other information**

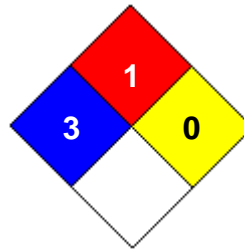
Prepared by: Regulatory Date revised: 12/20/2021

Revision summary: This SDS replaces the 01/15/2021 SDS. Revised: **Section 2:** Classification of the substance or mixture. **Section 12:** Aquatic toxicity, both acute and chronic. **Section 13:** RCRA/EPA waste information, RCRA hazard class.

**HMIS rating**

Health	3
Flammability	1
Physical hazard	0
Personal protection	D

**NFPA codes**



Additional SDS information: Rev 1.0.0

**Manufacturer disclaimer:** This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of the product either alone or in combination with other products. It is the responsibility of the employer and/or user to provide a safe workplace, using health and safety information contained herein as a guide. This company will accept no liability for damages or losses incurred from the improper handling and use of this product.